

Name \_\_\_\_\_

Date \_\_\_\_\_

**LESSON**  
**2.6****Practice B**

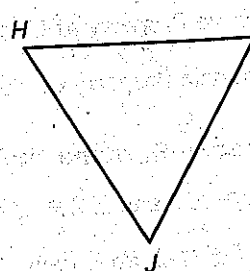
For use with pages 112-119

In Exercises 1-4, complete the proof.

1. GIVEN:
- $HI = 9$
- ,
- $IJ = 9$
- ,
- $\overline{IJ} \cong \overline{JH}$

PROVE:  $\overline{HI} \cong \overline{JH}$ 

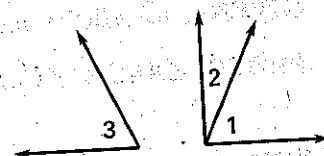
Statements	Reasons
1. $HI = 9$	1. ?
2. $IJ = 9$	2. ?
3. $HI = IJ$	3. ?
4. ?	4. Definition of congruent segments
5. $\overline{IJ} \cong \overline{JH}$	5. ?
6. $\overline{HI} \cong \overline{JH}$	6. ?



2. GIVEN:
- $\angle 3$
- and
- $\angle 2$
- are complementary.
- 
- $m\angle 1 + m\angle 2 = 90^\circ$

PROVE:  $\angle 1 \cong \angle 3$ 

Statements	Reasons
1. $\angle 3$ and $\angle 2$ are complementary.	1. ?
2. $m\angle 1 + m\angle 2 = 90^\circ$	2. ?
3. $m\angle 3 + m\angle 2 = 90^\circ$	3. ?
4. $m\angle 1 + m\angle 2 = m\angle 3 + m\angle 2$	4. ?
5. $m\angle 1 = m\angle 3$	5. ?
6. $\angle 1 \cong \angle 3$	6. ?



3. GIVEN:
- $AL = SK$

PROVE:  $AS = LK$ 

Statements	Reasons
1. $AL = SK$	1. ?
2. $LS = LS$	2. ?
3. $AL + LS = SK + LS$	3. ?
4. $AL + LS = AS$	4. ?
5. $SK + LS = LK$	5. ?
6. $AS = LK$	6. ?

